

**Technical Data Sheet****Qr Resin QR-6012-NAT**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

QR-6012-NAT is an Unfilled Polypropylene Homopolymer

**General**

|                 |                      |
|-----------------|----------------------|
| Material Status | • Commercial: Active |
| Availability    | • North America      |
| Features        | • Homopolymer        |
| Appearance      | • Natural Color      |
| Forms           | • Pellets            |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|-------------------------------------------|-------------------------|-------------------------|-------------|
| Density / Specific Gravity                | 0.900                   | 0.898 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10 g/10 min             | 10 g/10 min             | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Flexural Modulus                          | 228000 psi              | 1570 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Notched Izod Impact (73°F (23°C))         | 0.80 ft·lb/in           | 43 J/m                  | ASTM D256   |

## Technical Data Sheet



# Qr Resin QR-6012-NAT

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics



| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 300 °F                  | 149 °C             |
| Drying Time            | 4.0 to 6.0 hr           | 4.0 to 6.0 hr      |
| Drying Time, Maximum   | 6.0 hr                  | 6.0 hr             |
| Rear Temperature       | 610 to 650 °F           | 321 to 343 °C      |
| Middle Temperature     | 620 to 670 °F           | 327 to 354 °C      |
| Front Temperature      | 650 to 700 °F           | 343 to 371 °C      |
| Nozzle Temperature     | 640 to 680 °F           | 338 to 360 °C      |
| Processing (Melt) Temp | 650 to 700 °F           | 343 to 371 °C      |
| Mold Temperature       | 270 to 320 °F           | 132 to 160 °C      |

### Notes

These are typical property values not to be construed as specification limits.

### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

### Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

### Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2024

### Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

### Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.